

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-14 (Canceled).

Claim 15 (New): An electrolytic reactor, comprising:

a conical chamber open at two opposite ends;

a support for a part to be coated;

an anode placed in the chamber, towards a wide and narrow end respectively; and

means for circulating the electrolyte through the chamber from the narrow end to the wide end,

wherein the chamber includes stacked and removable slices and an armature for supporting and clamping the slices.

Claim 16 (New): An electrolytic reactor according to claim 14, wherein at least one of the slices contains at least a cavity in which the support can be placed.

Claim 17 (New): An electrolytic reactor according to claim 15, wherein a taper angle of the conical chamber is less than 20° and uniform.

Claim 18 (New): An electrolytic reactor according to claim 17, wherein circulating of the electrolyte is coaxial with the conical chamber within a tank containing the chamber, and comprising an electrolyte circuit looping back into the tank.

Claim 19 (New): An electrolytic reactor according to claim 18, wherein the electrolyte circuit is connected to the narrow end of the chamber through a nozzle with a conical opening prolonging the chamber.

Claim 20 (New): An electrolytic reactor according to claim 15, wherein the support of the part to be coated comprises electrical contacts for cathode polarization of the part arranged around the support and that include a free end pressed in contact on the part, and a connection end extending on a support face opposite the part.

Claim 21 (New): An electrolytic reactor according to claim 20, wherein the connection ends of the electrical contacts are connected to flexible arms of a star connector, fixed to the support by a mechanism with variable spacing, and wherein the support includes stops on which the flexible arms bend, and the electrical contacts are in a form of curved hooks standing up on the flexible arms.

Claim 22 (New): An electrolytic reactor according to claim 15, wherein the support of the part comprises a housing with a periphery and depth adjusted to the part.

Claim 23 (New): An electrolytic reactor according to claim 15, wherein the support of the part is installed removably on an armature delimiting the conical chamber.

Claim 24 (New): An electrolytic reactor according to claim 15, wherein the conical chamber, the support of the part to be coated, the part itself, and the anode are coaxial.

Claim 25 (New): An electrolytic reactor according to claim 19, wherein the nozzle also includes stacked and removable slices.

Claim 26 (New): An electrolytic reactor according to claim 15, wherein the slices are provided with individual extraction means.

Claim 27 (New): An electrolytic reactor according to claim 26, further comprising slides free to move in grooves of sidewalls of the tank and recessed above a slice to be extracted.

Claim 28 (New): An electrolytic reactor according to claim 16, wherein the slice comprises at least three radiating anode support arm cavities.